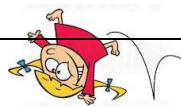# Equations Error Analysis

Sally is a silly little girl who makes mistakes! In Column #1, analyze her work and _circle her mistake_. In Column #2, explain what she did wrong. In Column #3, show how Silly Sally should work out the problem correctly. Show ALL work!

Silly Sally's Work (Circle her mistake):	What did Silly Sally do wrong?	Show Silly Sally how it's done! (Show ALL steps!)
$x + 5 = 28$ $\underline{+\ 5\quad +5}$ $x\qquad = 33$		
$\dfrac{12a}{12} = \dfrac{108}{12}$ $a = 8$		
$w - 42 = 18$ $\underline{+18\quad +18}$ $w\qquad = 36$		
$\dfrac{y}{15} = 3$ $\underline{\div\,15\quad \div\,15}$ $y\quad = 5$		
$x + 23.45 = 32$ $\underline{-\ 23.45\quad -23.45}$ $x\ =\qquad 9.45$		
$4\dfrac{1}{2}b = 36$ $\bullet 4\dfrac{1}{2}\quad \bullet 4\dfrac{1}{2}$ $b = 162$		

Solving One-Step Equations Problems

You can solve a word problem using one-step equations.

1) Figure out **what you know** and **what you want to know**. What you want to know will be represented by a **variable**.

2) Set up an **equation** to solve for the unknown (variable).

3) Use **inverse operations** to solve.

4) Don't forget to **label** your solution and write it as statement.

Example:

Edgar jogs for 20 minutes. He stretched then jogs some more. Altogether, he jogs for 35 minutes. How far does he jog after he stretches?

What do you know? _____

What do you want to know? _____

What does your variable represent? _____

What operation is used in the equation? _____

What inverse operation will you use to solve? _____

Write the one-step equation to solve. _____

Solution: _____

Solution as a statement: _____